Schlumberger

Verification Listing

Listing Created: 26−FEB−2007 17:09:28
Version: 14C0−302

Input Source: D:\Clients\BMA_A2a\Esso_Australia_Pty_Ltd\GUN\COMP_BMA_A2A_HPI_EJ_002.DLIS
Format: DLIS
Storage Set ID: Default Storage Set
Max Record Length: 8192
Storage Unit Sequence: 1

File Header

File: **PSP_014PUP** Sequence: **1**

Defining Origin: 105

File ID: PSP_014PUP File Type: PLAYBACK
Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 13 22−FEB−2007 19:43:38

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: PSPT−A/B
Computations: WELLCAD

Error Summary

File: **PSP_014PUP** Sequence: **1**

No errors detected in file.

Well Site Data

File: **PSP_014PUP** Sequence: **1**

Origin: 105

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	BMA A−2a	WN
Field Name	Bream	FN
Rig:	ISS/Rig 22	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Bass Strait	FL
	Gippsland	FL1
	Basin	FL2
Longitude	147*46'15"E	LONG
Latitude	38*30'4"S	LATI
Maximum Hole Deviation	49.0 (deg)	MHD
Permanent Datum	Mean Sea Level	PDAT
Log Measured From	Rig Floor	LMF
Drilling Measured From	Kelly Bushing	DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON, EKB, EGL, EDF, EPD, APD

Job Data

Date as Month−Day−Year	22−Feb−2007			DATE
Run Number	1			RUN
Current Casing Size	0.0 (in)			CSIZ
Casing Grade	L−80			CASG
Casing Weight	0.0 (lbm/ft)			CWEI
Bit Size	8.00 (in)			BS
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom	19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location	AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand			ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson			WITN

Absent Valued Parameters: TDD, TDL, BLI, TLI, CDF, CADT, BSDF, BSDT, SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Drilling Fluid Density	0.140 (g/cm3)			DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom	19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client.	R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m	R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT .	R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m.	R4
Tagged existing MPBT plug @ 2391 mMDKB.	R5
HPI Plug CCL stop depth = 2374.72mMDKB	R6
HPI Plug Anchors to CCL = 10.28m	R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB.	R8
Gun fired using the SAFE firing system, with MWPT.	R9
Underbalance when fired was 600+ psi	R10
Days: Dave Stuckey, Simon Kiss	R15
Nights: Brendan Glover(Crew Chief), Max Hancock	R16
Performed by Schlumberger	R17

Other Services

PBMS−Dummp HPI Plug	OS1
MWP	OS2
DD−CH	OS3

Channels File: **PSP_014PUP** Sequence: **1**

Origin: 105

PSPT−A/B: Production Services Logging Platform

Spacing: −6.0 in **Number of Channels:** 17

BHPR GR GTEM MTEP MWFD QGCP QGKF QGKTF QGPF QGTF RGR TOD7_DL TOJ_DL WPRE WTEP WTGR WTPE

Spacing: −1.0 in **Number of Channels:** 2

CCLC CCLD

System and Miscellaneous

Spacing: −6.0 in **Number of Channels:** 7

BS CS CVEL ETIM TDEP TENS TIME

Spacing: −1.0 in **Number of Channels:** 5

IDWD SCD SCDV TDEP;1 TIME;1

Frame Summary File: **PSP_014PUP** Sequence: **1**

Origin: 105

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2396.64 m	2266.65 m	−60.0 (0.1 in) up	24	TDEP	60B
	7863.00 ft	7436.50 ft				
BOREHOLE−DEPTH	2396.64 m	2266.67 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	7863.00 ft	7436.58 ft				

File Header File: **PLUG_020LUP** Sequence: **2**

Defining Origin: 41

File ID: PLUG_020LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 19 23−FEB−2007 2:12:00

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: PLUG, CCL−L
Computations: WELLCAD

Error Summary File: **PLUG_020LUP** Sequence: **2**

No errors detected in file.

Well Site Data File: **PLUG_020LUP** Sequence: **2**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A−2a		WN
Field Name	Bream		FN
Rig:	ISS/Rig 22		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Bass Strait		FL
	Gippsland		FL1
	Basin		FL2
Longitude	147*46'15"E		LONG
Latitude	38*30'4"S		LATI
Maximum Hole Deviation	49.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.4 (m)		EGL
Elevation of Derrick Floor	32.0 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rig Floor	Above Permanent Datum 32.0 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month−Day−Year	22−Feb−2007		DATE
Run Number	1		RUN
Total Depth − Driller	2472.0 (m)		TDD
Total Depth − Logger	2391.0 (m)		TDL
Bottom Log Interval	2367.7 (m)		BLI
Top Log Interval	2365.4 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	12.0 (m)		CDF
Casing Depth To	2468.5 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.0 (lbm/ft)		CWEI
Bit Size	8.00 (in)		BS
Bit Size Depth From	979.0 (m)		BSDF
Bit Size Depth To	2472.0 (m)		BSDT
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand		ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Drilling Fluid Density	0.140 (g/cm3)		DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client.	R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m	R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT .	R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m.	R4
Tagged existing MPBT plug @ 2391 mMDKB.	R5
HPI Plug CCL stop depth = 2374.72mMDKB	R6
HPI Plug Anchors to CCL = 10.28m	R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB.	R8
Gun fired using the SAFE firing system, with MWPT.	R9
Underbalance when fired was 600+ psi	R10
Days: Dave Stuckey, Simon Kiss	R15
Nights: Brendan Glover(Crew Chief), Max Hancock	R16
Performed by Schlumberger	R17

Other Services

PBMS−Dummp HPI Plug	OS1
MWP	OS2
DD−CH	OS3

Channels File: **PLUG_020LUP** Sequence: **2**

Origin: 41

PLUG: PLUG

Spacing: −1.0 in **Number of Channels:** 1

SCCL

CCL−L: Casing Collar Locator

Spacing: −1.0 in **Number of Channels:** 1

CCL

System and Miscellaneous

Spacing: −6.0 in **Number of Channels:** 7

BS CS CVEL ETIM TDEP TENS TIME

Spacing: −1.0 in **Number of Channels:** 5

IDWD SCD SCDV TDEP;1 TIME;1

Frame Summary File: **PLUG_020LUP** Sequence: **2**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2382.62 m	2287.52 m	−60.0 (0.1 in) up	7	TDEP	60B
	7817.00 ft	7505.00 ft				
BOREHOLE−DEPTH	2382.62 m	2287.55 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	7817.00 ft	7505.08 ft				

File Header File: **PLUG_021LUP** Sequence: **3**

Defining Origin: 41

File ID: PLUG_021LUP File Type: DEPTH LOG

Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 20 23−FEB−2007 2:27:24

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: PLUG, CCL−L
Computations: WELLCAD

Error Summary File: **PLUG_021LUP** Sequence: **3**

No errors detected in file.

Well Site Data File: **PLUG_021LUP** Sequence: **3**

Origin: 41

Well Data

Company Name	Esso Australia Pty Ltd.	CN
Well Name	BMA A−2a	WN
Field Name	Bream	FN
Rig:	ISS/Rig 22	CLAB, COUN
State:	Victoria	SLAB, STAT
Nation	Australia	NATI
Field Location	Bass Strait	FL
	Gippsland	FL1
	Basin	FL2
Longitude	147*46'15"E	LONG
Latitude	38*30'4"S	LATI

Maximum Hole Deviation	49.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.4 (m)		EGL
Elevation of Derrick Floor	32.0 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rig Floor	Above Permanent Datum 32.0 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month−Day−Year	22−Feb−2007		DATE
Run Number	1		RUN
Total Depth − Driller	2472.0 (m)		TDD
Total Depth − Logger	2391.0 (m)		TDL
Bottom Log Interval	2367.7 (m)		BLI
Top Log Interval	2365.4 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	12.0 (m)		CDF
Casing Depth To	2468.5 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.0 (lbm/ft)		CWEI
Bit Size	8.00 (in)		BS
Bit Size Depth From	979.0 (m)		BSDF
Bit Size Depth To	2472.0 (m)		BSDT
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand		ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Drilling Fluid Density	0.140 (g/cm3)		DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client.	R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m	R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT .	R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m.	R4
Tagged existing MPBT plug @ 2391 mMDKB.	R5
HPI Plug CCL stop depth = 2374.72mMDKB	R6
HPI Plug Anchors to CCL = 10.28m	R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB.	R8
Gun fired using the SAFE firing system, with MWPT.	R9
Underbalance when fired was 600+ psi	R10
Days: Dave Stuckey, Simon Kiss	R15
Nights: Brendan Glover(Crew Chief), Max Hancock	R16
Performed by Schlumberger	R17

Other Services

PBMS−Dummp HPI Plug	OS1
MWP	OS2
DD−CH	OS3

Channels

File: **PLUG_021LUP** Sequence: **3**

Origin: 41

PLUG: PLUG

Spacing: −1.0 in **Number of Channels:** 1

SCCL

CCL−L: Casing Collar Locator

Spacing: −1.0 in **Number of Channels:** 1

CCL

System and Miscellaneous

System and Miscellaneous

Spacing: −6.0 in **Number of Channels:** 7

BS CS CVEL ETIM TDEP TENS TIME

Spacing: −1.0 in **Number of Channels:** 5

IDWD SCD SCDV TDEP;1 TIME;1

Frame Summary File: **PLUG_021LUP** Sequence: **3**

Origin: 41

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2380.79 m	2291.64 m	−60.0 (0.1 in) up	7	TDEP	60B
	7811.00 ft	7518.50 ft				
BOREHOLE−DEPTH	2380.79 m	2291.66 m	−10.0 (0.1 in) up	7	TDEP;1	10B
	7811.00 ft	7518.58 ft				

File Header File: **PERFO_031LUP** Sequence: **4**

Defining Origin: 116

File ID: PERFO_031LUP File Type: DEPTH LOG

Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 30 23−FEB−2007 16:09:36

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: MWP_GUN, MWPT−CA, MWGT−BA
Computations: WELLCAD

Error Summary File: **PERFO_031LUP** Sequence: **4**

No errors detected in file.

Well Site Data File: **PERFO_031LUP** Sequence: **4**

Origin: 116

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A−2a		WN
Field Name	Bream		FN
Rig:	ISS/Rig 22		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Bass Strait		FL
	Gippsland		FL1
	Basin		FL2
Longitude	147*46'15"E		LONG
Latitude	38*30'4"S		LATI
Maximum Hole Deviation	49.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.4 (m)		EGL
Elevation of Derrick Floor	32.0 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rig Floor	Above Permanent Datum 32.0 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month−Day−Year	22−Feb−2007	DATE
Run Number	1	RUN
Total Depth − Driller	2472.0 (m)	TDD
Total Depth − Logger	2391.0 (m)	TDL
Bottom Log Interval	2367.7 (m)	BLI
Top Log Interval	2365.4 (m)	TLI
Current Casing Size	7.00 (in)	CSIZ
Casing Depth From	12.0 (m)	CDF
Casing Depth To	2468.5 (m)	CADT
Casing Grade	L−80	CASG
Casing Weight	26.0 (lbm/ft)	CWEI
Bit Size	8.00 (in)	BS

Bit Size Depth From	979.0 (m)			BSDF
Bit Size Depth To	2472.0 (m)			BSDT
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom	19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location	AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand			ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson			WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids			DFT
Drilling Fluid Density	0.140 (g/cm3)			DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom	19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client.	R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m	R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT .	R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m.	R4
Tagged existing MPBT plug @ 2391 mMDKB.	R5
HPI Plug CCL stop depth = 2374.72mMDKB	R6
HPI Plug Anchors to CCL = 10.28m	R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB.	R8
Gun fired using the SAFE firing system, with MWPT.	R9
Underbalance when fired was 600+ psi	R10
Days: Dave Stuckey, Simon Kiss	R15
Nights: Brendan Glover(Crew Chief), Max Hancock	R16
Performed by Schlumberger	R17

Other Services

PBMS−Dummp HPI Plug	OS1
MWP	OS2
DD−CH	OS3

Channels

File: **PERFO_031LUP** Sequence: **4**

Origin: 116

MWPT−CA: MEASUREMENT WHILE PERFORATING TOOL

Spacing: −6.0 in **Number of Channels:** 14

BHPR CSGP DPRE DTEM ESGP ETIM GTEM PSGP SGP SGPA SGPT TEMP_MWPT TOD7_DL TOJ_DL

Spacing: −1.0 in **Number of Channels:** 4

CCL CCL_COR FCCL RCCL

MWGT−BA: MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL

Spacing: −6.0 in **Number of Channels:** 2

GR RGR

System and Miscellaneous

Spacing: −6.0 in **Number of Channels:** 6

BS CS CVEL TDEP TENS TIME

Spacing: −1.0 in **Number of Channels:** 6

IDWD SCCL SCD SCDV TDEP;1 TIME;1

Frame Summary

File: **PERFO_031LUP** Sequence: **4**

Origin: 116

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2375.61 m 7794.00 ft	2296.21 m 7533.50 ft	−60.0 (0.1 in) up	22	TDEP	60B
BOREHOLE−DEPTH	2375.61 m 7794.00 ft	2296.24 m 7533.58 ft	−10.0 (0.1 in) up	10	TDEP;1	10B

File Header

File: **PERFO_032LUP** Sequence: **5**

Defining Origin: 116

File ID: PERFO_032LUP File Type: DEPTH LOG
Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 31 23−FEB−2007 16:30:12

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: MWP_GUN, MWPT−CA, MWGT−BA
Computations: WELLCAD

Error Summary File: **PERFO_032LUP** Sequence: **5**

No errors detected in file.

Well Site Data File: **PERFO_032LUP** Sequence: **5**

Origin: 116

Well Data

Company Name	Esso Australia Pty Ltd.		CN
Well Name	BMA A−2a		WN
Field Name	Bream		FN
Rig:	ISS/Rig 22		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Bass Strait		FL
	Gippsland		FL1
	Basin		FL2
Longitude	147*46'15"E		LONG
Latitude	38*30'4"S		LATI
Maximum Hole Deviation	49.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.4 (m)		EGL
Elevation of Derrick Floor	32.0 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rig Floor	Above Permanent Datum 32.0 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month−Day−Year	22−Feb−2007		DATE
Run Number	1		RUN
Total Depth − Driller	2472.0 (m)		TDD
Total Depth − Logger	2391.0 (m)		TDL
Bottom Log Interval	2367.7 (m)		BLI
Top Log Interval	2365.4 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	12.0 (m)		CDF
Casing Depth To	2468.5 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.0 (lbm/ft)		CWEI
Bit Size	8.00 (in)		BS
Bit Size Depth From	979.0 (m)		BSDF
Bit Size Depth To	2472.0 (m)		BSDT
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand		ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Drilling Fluid Density	0.140 (g/cm3)		DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client. R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT . R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m. R4
Tagged existing MPBT plug @ 2391 mMDKB. R5
HPI Plug CCL stop depth = 2374.72mMDKB R6
HPI Plug Anchors to CCL = 10.28m R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB. R8
Gun fired using the SAFE firing system, with MWPT. R9
Underbalance when fired was 600+ psi R10
Days: Dave Stuckey, Simon Kiss R15
Nights: Brendan Glover(Crew Chief), Max Hancock R16
Performed by Schlumberger R17

Other Services

PBMS−Dummp HPI Plug OS1
MWP OS2
DD−CH OS3

Channels

File: **PERFO_032LUP** Sequence: **5**

Origin: 116

MWPT−CA: MEASUREMENT WHILE PERFORATING TOOL

Spacing: −6.0 in **Number of Channels:** 14

BHPR CSGP DPRE DTEM ESGP ETIM GTEM PSGP SGP SGPA SGPT TEMP_MWPT TOD7_DL TOJ_DL

Spacing: −1.0 in **Number of Channels:** 4

CCL CCL_COR FCCL RCCL

MWGT−BA: MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL

Spacing: −6.0 in **Number of Channels:** 2

GR RGR

System and Miscellaneous

Spacing: −6.0 in **Number of Channels:** 6

BS CS CVEL TDEP TENS TIME

Spacing: −1.0 in **Number of Channels:** 6

IDWD SCCL SCD SCDV TDEP;1 TIME;1

Frame Summary

File: **PERFO_032LUP** Sequence: **5**

Origin: 116

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
BOREHOLE−DEPTH	2375.31 m 7793.00 ft	2282.49 m 7488.50 ft	−60.0 (0.1 in) up	22	TDEP	60B
BOREHOLE−DEPTH	2375.31 m 7793.00 ft	2282.37 m 7488.08 ft	−10.0 (0.1 in) up	10	TDEP;1	10B

File Header

File: **PERFO_035LTP** Sequence: **6**

Defining Origin: 116

File ID: PERFO_035LTP File Type: STATION
Producer Name: Schlumberger Product/Version: OP 14C0−302 File Set: 41 File Number: 34 23−FEB−2007 16:37:56

Company Name: Esso Australia Pty Ltd.
Well Name: BMA A−2a
Field Name: Bream
Tool String: MWP_GUN, MWPT−CA, MWGT−BA
Computations: WELLCAD

Error Summary

File: **PERFO_035LTP** Sequence: **6**

No errors detected in file.

Well Site Data

File: **PERFO_035LTP** Sequence: **6**

Origin: 116

Well Data

Company Name Esso Australia Pty Ltd. CN
Well Name BMA A−2a WN

Field Name	Bream		FN
Rig:	ISS/Rig 22		CLAB, COUN
State:	Victoria		SLAB, STAT
Nation	Australia		NATI
Field Location	Bass Strait		FL
	Gippsland		FL1
	Basin		FL2
Longitude	147*46'15"E		LONG
Latitude	38*30'4"S		LATI
Maximum Hole Deviation	49.0 (deg)		MHD
Elevation of Kelly Bushing	33.5 (m)		EKB
Elevation of Ground Level	−59.4 (m)		EGL
Elevation of Derrick Floor	32.0 (m)		EDF
Permanent Datum	Mean Sea Level	Elevation of Permanent Datum 0.0 (m)	PDAT, EPD
Log Measured From	Rig Floor	Above Permanent Datum 32.0 (m)	LMF, APD
Drilling Measured From	Kelly Bushing		DMF

Absent Valued Parameters: CN1, CONT, SECT, TOWN, RANG, APIN, SON

Job Data

Date as Month−Day−Year	22−Feb−2007		DATE
Run Number	1		RUN
Total Depth − Driller	2472.0 (m)		TDD
Total Depth − Logger	2391.0 (m)		TDL
Bottom Log Interval	2367.7 (m)		BLI
Top Log Interval	2365.4 (m)		TLI
Current Casing Size	7.00 (in)		CSIZ
Casing Depth From	12.0 (m)		CDF
Casing Depth To	2468.5 (m)		CADT
Casing Grade	L−80		CASG
Casing Weight	26.0 (lbm/ft)		CWEI
Bit Size	8.00 (in)		BS
Bit Size Depth From	979.0 (m)		BSDF
Bit Size Depth To	2472.0 (m)		BSDT
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB
Logging Unit Number	3827	Logging Unit Location AUSL	LUN, LUL
Engineer's Name	A.Sword, C.Rowand		ENGI
Witness's Name	Mr B.Woodward, Mr M.Wilson		WITN

Absent Valued Parameters: SON

Mud Data

Drilling Fluid Type	Production Fluids		DFT
Drilling Fluid Density	0.140 (g/cm3)		DFD
Date Logger At Bottom	22−Feb−2007	Time Logger At Bottom 19:15	DLAB, TLAB

Absent Valued Parameters: DFV, DFL, DFPH, BSAL, MSS, RMS, MST, RMFS, MFST, RMCS, MCST, RMB, RMFB, MRT, MRT1, MRT2, MRT3, DCS, TCS

PVT Data

Absent Valued Parameters: ODEN, BSAL, GGRA, BO, BW, IBG, BPP, BPT, SGOR

Cement Data

Cement Job Type	Primary	CJT

Absent Valued Parameters: CTOP, CASN, LCMT, LCVO, CDEN, CWLO, CADD, TCTY, TCV, TCDE, TCWL, TCA

Remarks

Log Correlated to Solar Composite Log. No Date. Provided by the client.	R1
Objective: Is to isolate current perforations with a 7" HPI Plug set at 2385m	R2
Then perforate new interval with 2−1/8 phased enerjet and MWPT .	R3
Dummy HPI plug run, was logged with a PBMS in combination Found GOC @ 1975m and OWC @ 2025m.	R4
Tagged existing MPBT plug @ 2391 mMDKB.	R5
HPI Plug CCL stop depth = 2374.72mMDKB	R6
HPI Plug Anchors to CCL = 10.28m	R7
2−1/8" Ph Powerjets, +/− 45 Deg, 6 spf were used to perforate 2365.4−2367.7 mMDKB.	R8
Gun fired using the SAFE firing system, with MWPT.	R9
Underbalance when fired was 600+ psi	R10
Days: Dave Stuckey, Simon Kiss	R15
Nights: Brendan Glover(Crew Chief), Max Hancock	R16
Performed by Schlumberger	R17

Other Services

PBMS−Dummp HPI Plug	OS1
MWP	OS2
DD−CH	OS3

Channels

File: **PERFO_035LTP** Sequence: **6**

Origin: 116

MWPT−CA: MEASUREMENT WHILE PERFORATING TOOL

Spacing: 1000.0 ms **Number of Channels:** 3
ETIM_PL TOD7 TOJ
Spacing: 500.0 ms **Number of Channels:** 10
CSGP_SL DPRE_SL DTEM_SL ESGP_SL PSGP_SL RCCL_SL SGPA_SL SGPT_SL SGP_SL TEMP_MWPT_SL
Spacing: 250.0 ms **Number of Channels:** 1
CCL_SL

MWGT−BA: MEASUREMENT WHILE PERFORATING GAMMA RAY TOOL

Spacing: 500.0 ms **Number of Channels:** 2
GR_SL RGR_SL

System and Miscellaneous

Spacing: 1000.0 ms **Number of Channels:** 2
TDEP;2 TIME;2
Spacing: 500.0 ms **Number of Channels:** 2
TDEP;3 TIME;3
Spacing: 250.0 ms **Number of Channels:** 3
ETIM;1 TDEP;4 TIME;4

Frame Summary File: **PERFO_035LTP** Sequence: **6**

Origin: 116

Index Type	Start	Stop	Spacing	Channels	Index Channel	Frame Name
TIME	5304.54	7385.54 s	2000.0 (0.5 ms)	5	TIME;2	2000T
TIME	5304.54	7385.54 s	1000.0 (0.5 ms)	14	TIME;3	1000T
TIME	5304.54	7385.54 s	500.0 (0.5 ms)	4	TIME;4	500T